

# **EXHIBIT 1**



US00D699717S

(12) **United States Design Patent**  
**Akana et al.**

(10) **Patent No.:** **US D699,717 S**  
(45) **Date of Patent:** **\*\* Feb. 18, 2014**

(54) **HOUSING FOR AN ELECTRONIC DEVICE**

(71) **Applicant:** **Apple, Inc.**, Cupertino, CA (US)

(72) **Inventors:** **Jody Be Akana**, San Francisco, CA (US); **Bartley K. Andre**, Palo Alto, CA (US); **Jeremy Bataillou**, San Francisco, CA (US); **Daniel J. Coster**, San Francisco, CA (US); **Teodor Dabov**, San Francisco, CA (US); **Daniele De Iuliis**, San Francisco, CA (US); **Erik Geddes Pieter De Jong**, San Francisco, CA (US); **M. Evans Hankey**, San Francisco, CA (US); **David Glenn Havskjold**, Sunnyvale, CA (US); **Julian Hoenig**, San Francisco, CA (US); **Richard P. Howarth**, San Francisco, CA (US); **Jonathan P. Ive**, San Francisco, CA (US); **Duncan Robert Kerr**, San Francisco, CA (US); **Wey-Jiun Lin**, Los Altos, CA (US); **Tyson Benner Manullang**, Sunnyvale, CA (US); **Anthony Montevirgen**, San Francisco, CA (US); **Shin Nishibori**, Kailua, HI (US); **Matthew Dean Rohrbach**, San Francisco, CA (US); **Peter Russell-Clarke**, San Francisco, CA (US); **Emery Artemus Sanford**, San Francisco, CA (US); **Mikael Silvano**, San Francisco, CA (US); **Christopher J. Stringer**, Woodside, CA (US); **Eugene Antony Whang**, San Francisco, CA (US); **Rico Zörkendörfer**, San Francisco, CA (US)

(73) **Assignee:** **Apple Inc.**, Cupertino, CA (US)

(\*\*) **Term:** **14 Years**

(21) **Appl. No.:** **29/453,041**

(22) **Filed:** **Apr. 24, 2013**

**Related U.S. Application Data**

(63) Continuation of application No. 29/431,870, filed on Sep. 11, 2012, now abandoned.

(51) **LOC (10) Cl.** ..... **14-03**

(52) **U.S. Cl.**

USPC ..... **D14/250; D14/439**

(58) **Field of Classification Search**

USPC ..... D14/129, 130, 137, 138 AA, 138 AB, D14/138 G, 203, 217, 248, 250, 257, 315, D14/340, 341, 426, 439, 496; D10/65, 104; D21/329; 29/428, 464; 174/50, 559, 174/560; 312/223.1, 223.2; 345/157, 168, 345/173; 348/333.01, 340; 349/58; 361/679.01, 679.02, 679.21, 679.22, 361/679.55, 679.56; 455/575.1

See application file for complete search history.

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*Primary Examiner* — Thomas Johannes

*Assistant Examiner* — Chelsea Sealey

(74) **Attorney, Agent, or Firm** — Sterne, Kessler, Goldstein & Fox PLLC

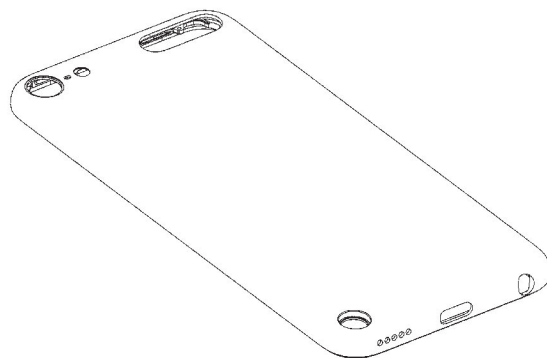
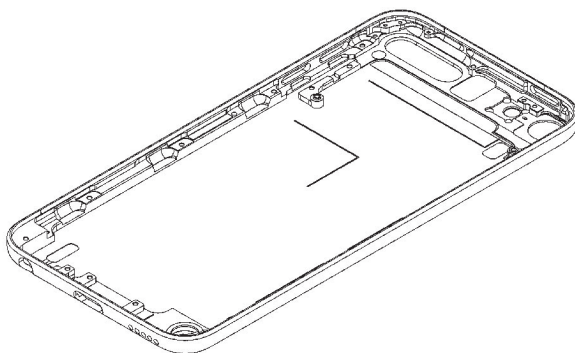
(57) **CLAIM**

The ornamental design for a housing for an electronic device, as shown and described.

**DESCRIPTION**

FIG. 1 is a bottom front perspective view of a housing for an electronic device showing our new design;  
FIG. 2 is a bottom rear perspective view thereof;  
FIG. 3 is a front view thereof;  
FIG. 4 is a left side view thereof;  
FIG. 5 is a right side view thereof;  
FIG. 6 is a top view thereof; and,  
FIG. 7 is a bottom view thereof.

**1 Claim, 5 Drawing Sheets**



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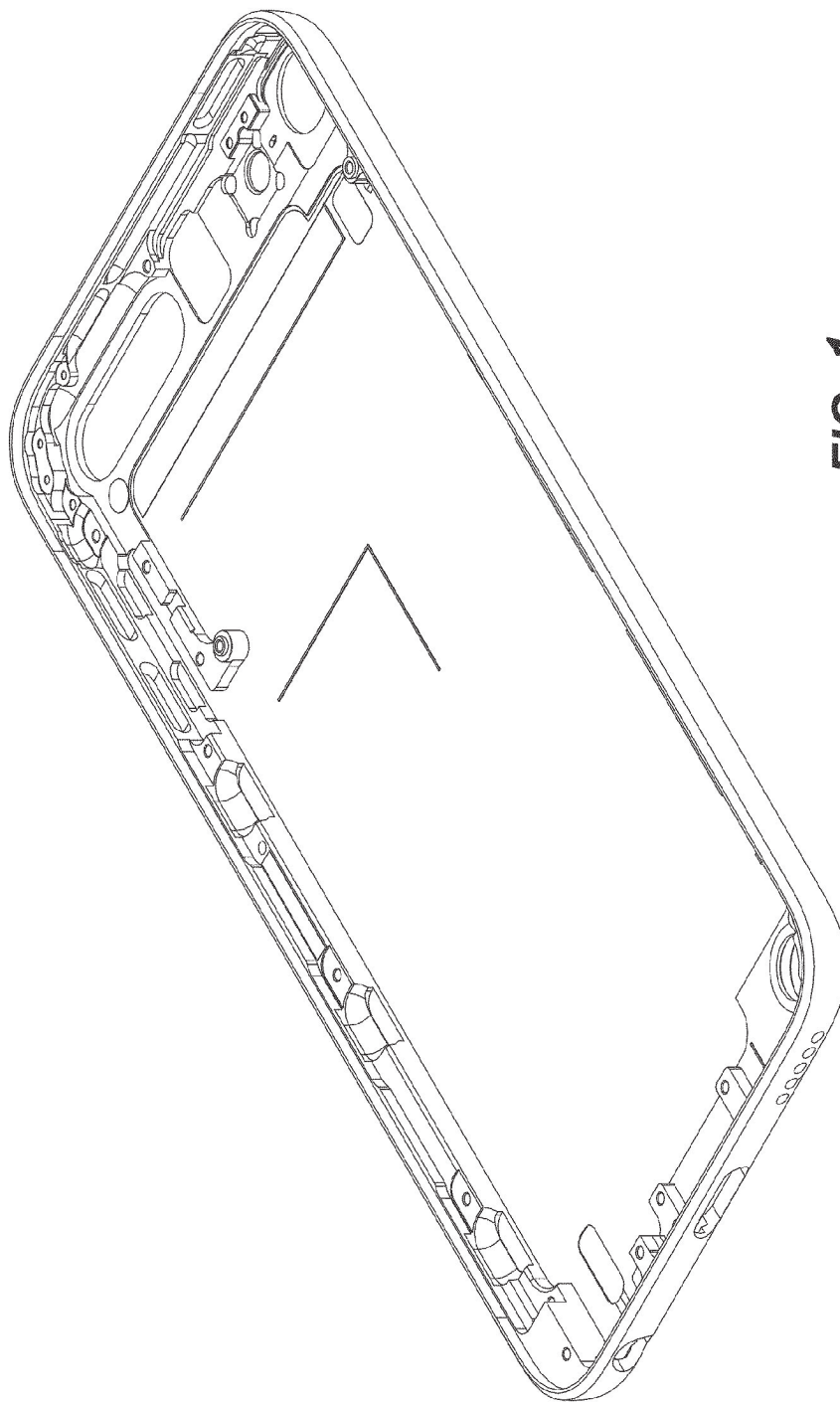
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**U.S. Patent**

**Feb. 18, 2014**

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**US D699,717 S**



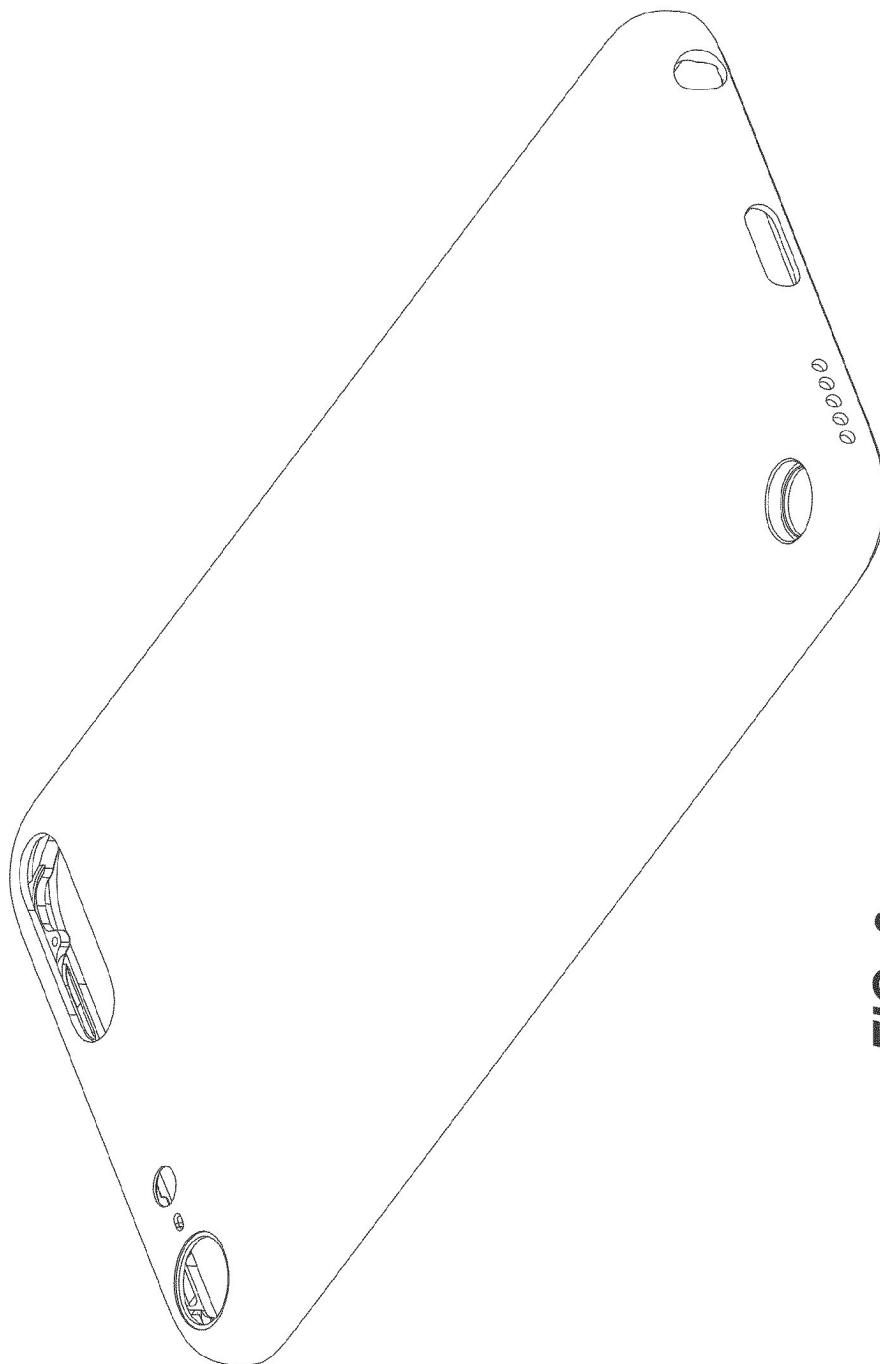
**FIG. 1**

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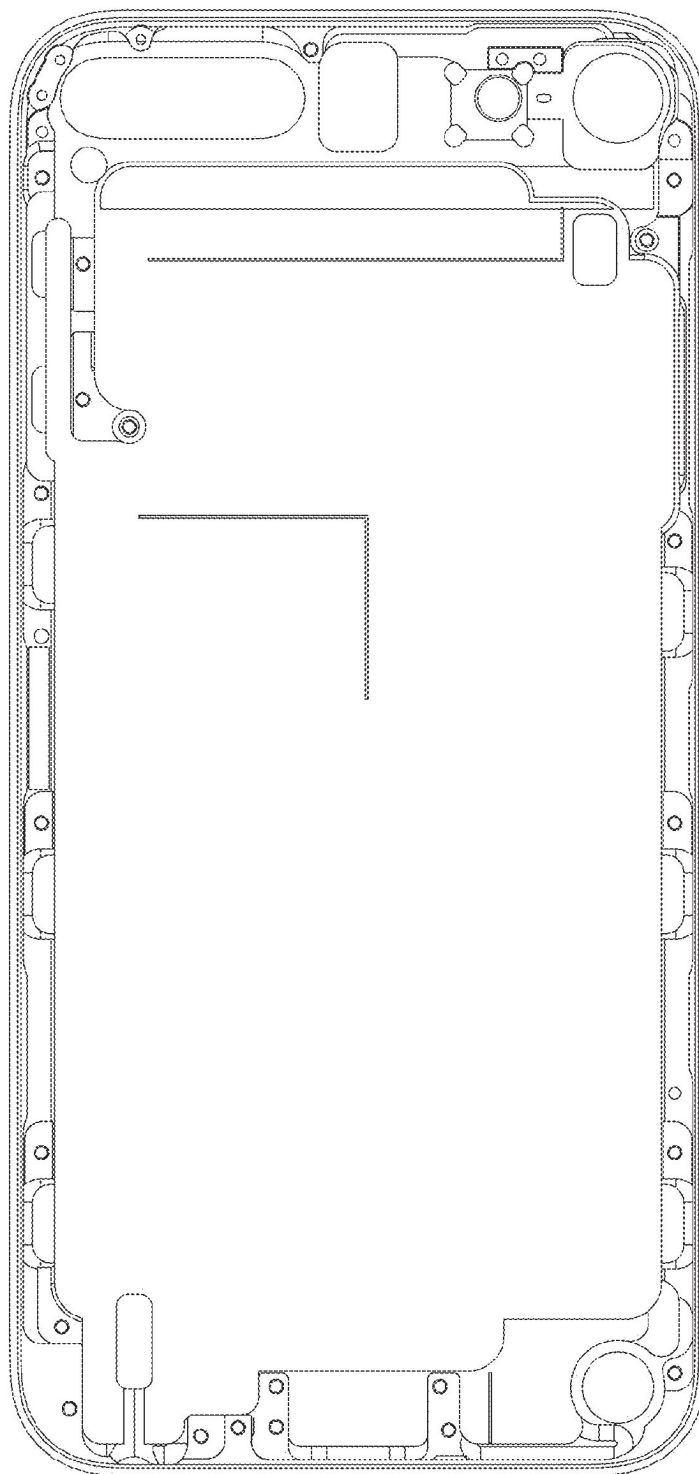
**FIG. 2**

**U.S. Patent**

**Feb. 18, 2014**

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**FIG. 3**

**U.S. Patent**

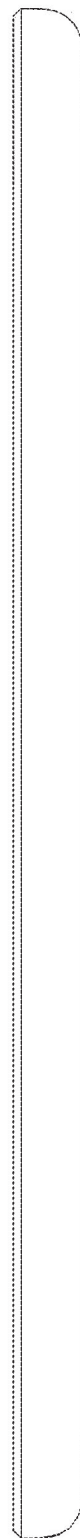
**Feb. 18, 2014**

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**FIG. 4**



**FIG. 5**

**U.S. Patent**

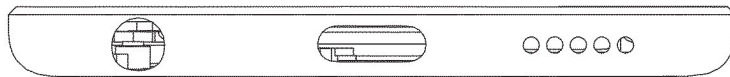
**Feb. 18, 2014**

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***FIG. 6***



***FIG. 7***



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : D699,717 S  
APPLICATION NO. : 29/453041  
DATED : February 18, 2014  
INVENTOR(S) : Jody Akana et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page, item (71), applicant, please change "Apple, Inc." to --Apple Inc.--. Title Page, item (72), inventors, please change "Jody Be AKANA" to --Jody AKANA--.

Signed and Sealed this  
Ninth Day of September, 2014



Michelle K. Lee  
*Deputy Director of the United States Patent and Trademark Office*

# **EXHIBIT 2**



US00D786290S

(12) **United States Design Patent**  
**Van Os**

(10) **Patent No.:** **US D786,290 S**

(45) **Date of Patent:** **\*\* May 9, 2017**

(54) **DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE**

(71) **Applicant:** **Apple Inc.**, Cupertino, CA (US)

(72) **Inventor:** **Marcel Van Os**, San Francisco, CA (US)

(73) **Assignee:** **Apple Inc.**, Cupertino, CA (US)

(\*\*) **Term:** **15 Years**

(21) **Appl. No.:** **29/566,334**

(22) **Filed:** **May 27, 2016**

**Related U.S. Application Data**

(60) Continuation of application No. 29/516,932, filed on Feb. 6, 2015, now Pat. No. Des. 757,778, which is a continuation of application No. 29/366,393, filed on Jul. 23, 2010, now abandoned, which is a division of application No. 29/281,695, filed on Jun. 28, 2007, now abandoned, which is a continuation-in-part of application No. 29/281,507, filed on Jun. 25, 2007, now Pat. No. Des. 608,366, which is a continuation-in-part of application No. 29/281,460, filed on Jun. 23, 2007, now Pat. No. Des. 604,305.

(51) **LOC (10) Cl.** ..... **14-04**

(52) **U.S. Cl.**  
USPC ..... **D14/486; D14/493**

(58) **Field of Classification Search**  
USPC ..... D14/485-95; D18/24-33; D19/6, 52;  
D20/11; D21/324-33; 715/700-867,  
715/973-77  
CPC ..... G06F 3/048-3/04897  
See application file for complete search history.

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*Primary Examiner* — Melanie H Tung

(74) *Attorney, Agent, or Firm* — Sterne, Kessler, Goldstein & Fox P.L.L.C.

(57)

**CLAIM**

The ornamental design for a display screen or portion thereof with graphical user interface, as shown and described.

**DESCRIPTION**

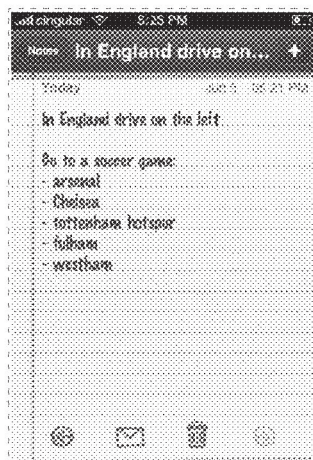
The file of this patent contains at least one drawing/photograph executed in color. Copies of this patent with color drawing(s)/photograph(s) will be provided by the Office upon request and payment of the necessary fee.

The FIGURE is a front view of a display screen or portion thereof with graphical user interface showing the claimed design.

The broken lines in the FIGURE show a display screen or portion thereof, and form no part of the claimed design.

**1 Claim, 1 Drawing Sheet**

**(1 of 1 Drawing Sheet(s) Filed in Color)**



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(56)

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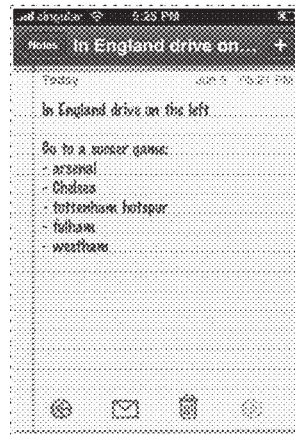
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**U.S. Patent**

**May 9, 2017**

**US D786,290 S**



# **EXHIBIT 3**

(10) **Patent No.:** US 10,061,399 B2  
(45) **Date of Patent:** Aug. 28, 2018

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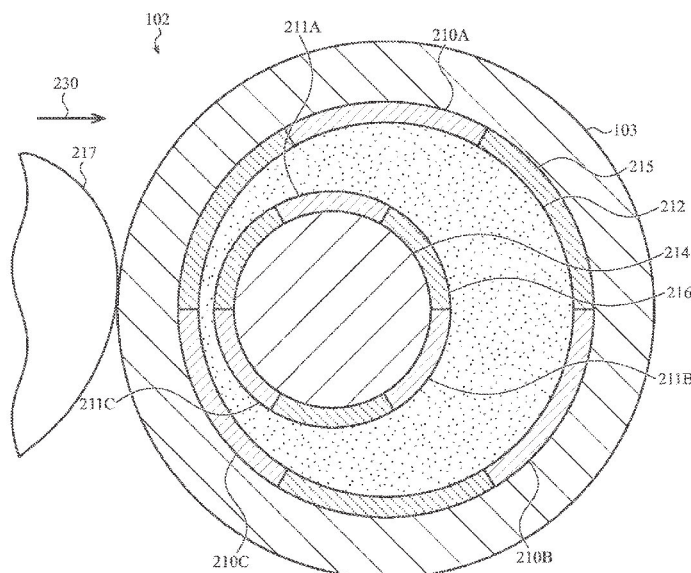
US 2018/0018026 A1 Jan. 18, 2018

(74) *Attorney, Agent, or Firm* — Brownstein Hyatt Farber Schreck, LLP

- (57) **ABSTRACT**

- U.S. PATENT DOCUMENTS

**20 Claims, 16 Drawing Sheets**



# **EXHIBIT 4**





US010285645B2

(12) **United States Patent**  
**Bushnell et al.**

(10) **Patent No.:** **US 10,285,645 B2**  
(45) **Date of Patent:** **May 14, 2019**

(54) **SENSING CONTACT FORCE RELATED TO USER WEARING AN ELECTRONIC DEVICE**

USPC ..... 600/300, 322, 587, 595; 340/407.1  
See application file for complete search history.

(71) **Applicant:** **Apple Inc.**, Cupertino, CA (US)

(56) **References Cited**

(72) **Inventors:** **Tyler S. Bushnell**, Cupertino, CA (US); **Steven J. Martisaukas**, Cupertino, CA (US); **Erik G. de Jong**, Cupertino, CA (US); **Andrzej T. Baranski**, Cupertino, CA (US); **Serhan O. Isikman**, Cupertino, CA (US); **Steven J. Banaska**, Cupertino, CA (US); **Todd K. Whitehurst**, Cupertino, CA (US); **Ming L. Sartee**, Morro Bay, CA (US)

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(73) **Assignee:** **Apple Inc.**, Cupertino, CA (US)

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 764 days.

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(21) **Appl. No.:** **14/867,311**

(22) **Filed:** **Sep. 28, 2015**

*Primary Examiner* — May A Abouelela

(65) **Prior Publication Data**

US 2017/0086743 A1 Mar. 30, 2017

(74) **Attorney, Agent, or Firm** — **Brownstein Hyatt Farber Schreck, LLP**

(51) **Int. Cl.**

**A61B 5/00** (2006.01)  
**G01L 1/14** (2006.01)  
**A43C 7/00** (2006.01)  
**A61B 5/021** (2006.01)

(52) **U.S. Cl.**

CPC ..... **A61B 5/6843** (2013.01); **A61B 5/681** (2013.01); **G01L 1/142** (2013.01); **A61B 5/021** (2013.01); **A61B 5/412** (2013.01); **A61B 5/4872** (2013.01); **A61B 2562/0261** (2013.01)

(58) **Field of Classification Search**

CPC ..... A43B 11/00; A43B 13/125; A43C 7/00; A43C 11/20; A43C 1/06; A61B 2090/061; A61B 2090/064; A61B 2562/0261; A61B 5/486; A61B 5/681; A61B 5/6831

(57) **ABSTRACT**

A wearable electronic device includes a body, a housing component, a band operable to attach the body to a body part of a user, and a force sensor coupled to the housing component. The force sensor is operable to produce a force signal based on a force exerted between the body part of the user and the housing component. A processing unit of the wearable electronic device receives the force signal from the force sensor and determines the force exerted on the housing component based thereon. The processing unit may use that force to determine a tightness of the band, determine health information for the user, adjust determined force exerted on a cover glass, and/or to perform various other actions.

**20 Claims, 7 Drawing Sheets**

